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Attorney Docket No.: BOC920030102US1 (1082-005U)

## **LISTING OF THE CLAIMS**

1. (Original) A method of evaluating the quality of voice input recognition by a voice portal, said method comprising the steps of:

extracting a current grammar from the voice portal;

generating a test input for the current grammar, the test input including a test pattern and a set of active grammars for the current grammar;

providing the test input to the voice portal;

analyzing the test pattern with respect to the set of active grammars with a speech recognition engine in the voice portal; and

deriving a measure of quality of recognition for the current grammar.

2. (Original) The method of claim 1, wherein said deriving step includes the step of deriving a confidence level and a set of n-best results for the test input, and further comprising the steps of:

comparing the confidence level and set of n-best results for the test input with an expected value to assess the measure of quality of recognition.

3. (Original) The method of claim 1, further comprising the steps of:

modifying the current grammar to create a modified grammar if the measure of quality of recognition for the current grammar deviates from a pre-determined range.

Filed: 12/11/2003

Attorney Docket No.: BOC920030102US1 (1082-005U)

- 4. (Original) The method of claim 3, further comprising the steps of:
- (i) generating a test input for the modified grammar, the test input including a test pattern and a set of active grammars for the modified grammar;
  - (ii) providing the test input for the modified grammar to the voice portal;
- (iii) analyzing the test pattern for the modified grammar with respect to the set of active grammars corresponding to the modified grammar with the speech recognition engine in the voice portal;
  - (iv) deriving a measure of quality of recognition of the modified grammar; and
- (v) re-modifying the modified grammar and repeating steps (i) through (iv) until the measure of quality of recognition of the modified grammar does not deviate from a predetermined range.
- 5. (Original) The method of claim 1, further comprising the steps of: modifying the test pattern to emulate one or more user voices prior to entering the test input into the voice portal.
- 6. (Original) The method of claim 1, further comprising the steps of:

  modifying the test pattern to emulate the influence of one or more communications
  network qualities prior to entering the test input into the voice portal.
- 7. (Currently Amended) A <u>computer program product machine readable storage having</u> stored thereon a <u>computer program</u> for evaluating the quality of voice input recognition by a voice portal, said computer program product comprising computer usable program code

Filed: 12/11/2003

Attorney Docket No.: BOC920030102US1 (1082-005U)

including a routine set of instructions which when executed by a machine cause the machine to perform the steps of:

extracting a current grammar from the voice portal;

generating a test input for the current grammar, the test input including a test pattern and a set of active grammars for the current grammar;

providing the test input to the voice portal;

analyzing the test pattern with respect to the set of active grammars with a speech recognition engine in the voice portal; and

deriving a measure of quality of recognition for the current grammar.

8. (Original) The machine readable storage of claim 7, wherein said deriving step includes the step of deriving a confidence level and a set of n-best results for the test input, and further causing said machine to perform the steps of:

comparing the confidence level and set of n-best results for the test input with an expected value to assess the measure of quality of recognition.

9. The machine readable storage of claim 7, further causing said machine to (Original) perform the steps of:

modifying the current grammar to create a modified grammar if the measure of quality of recognition for the current grammar deviates from a pre-determined range.

The machine readable storage of claim 9, further causing said machine to 10. (Original) perform the steps of:

Filed: 12/11/2003

Attorney Docket No.: BOC920030102US1 (1082-005U)

(i) generating a test input for the modified grammar, the test input including a test pattern and a set of active grammars for the modified grammar;

- (ii) providing the test input for the modified grammar to the voice portal;
- (iii) analyzing the test pattern for the modified grammar with respect to the set of active grammars corresponding to the modified grammar with the speech recognition engine in the voice portal;
  - (iv) deriving a measure of quality of recognition of the modified grammar; and
- (v) re-modifying the modified grammar and repeating steps (i) through (iv) until the measure of quality of recognition of the modified grammar does not deviate from a predetermined range.
- 11. (Original) The machine readable storage of claim 7, further causing said machine to perform the steps of:

modifying the test pattern to emulate one or more user voices prior to entering the test input into the voice portal.

12. (Original) The machine readable storage of claim 7, causing said machine to perform the steps of:

modifying the test pattern to emulate the influence of one or more communications network qualities prior to entering the test input into the voice portal.

13. (Original) A system for evaluating the quality of voice input recognition by a voice portal having a speech recognition engine, comprising:

Filed: 12/11/2003

Attorney Docket No.: BOC920030102US1 (1082-005U)

an analysis interface for extracting a set of current grammars from the voice portal;

a test pattern generator for generating a test input for each current grammar, the test input

including a test pattern and a set of active grammars corresponding to each current grammar;

a text-to-speech engine for entering each test pattern into the voice portal;

a results collector for analyzing each test pattern entered into the voice portal with the

speech recognition engine against the set of active grammars corresponding to the current

grammar for said test pattern; and

a results analyzer for deriving a set of statistics of a quality of recognition of each current

grammar.

14. (Original) The system of claim 13, wherein the set of statistics includes a confidence

level and a set of n-best results for each test input, and wherein the results analyzer is configured

to compare the confidence level and set of n-best results for each test input with an expected

value to assess the quality of recognition of each current grammar having said test input with

respect to its corresponding set of active grammars.

15. (Original) The system of claim 13, wherein the test pattern generator is configured to

modify each test pattern to emulate one or more user voices prior to entering the test input into

the voice portal.

6

Filed: 12/11/2003

Attorney Docket No.: BOC920030102US1 (1082-005U)

16. (Original) The method of claim 1, further comprising the steps of:

wherein the test pattern generator is configured to modify each test pattern to emulate the influence of one or more communications network qualities prior to entering the test input into the voice portal.